

IN THE CLAIMS

Please amend claims 25, 28 and 30 as follows:

Claims 1-24. (Canceled)

1 25. (Currently Amended) A method of generating an alarm on an occurrence of a cell
2 secession of a mobile station located within a common cell area of a public and private radio
3 mobile communication system, the method comprising:

4 receiving power-related information transmitted from the mobile station during a call
5 and detecting information about the frame quality from the received information;

6 comparing the frame quality information with a power control parameter value of the
7 system;

8 determining whether the mobile station [[is]] has been registered in the private
9 wireless communication service system to facilitate the mobile station to use the private
10 radio communication system upon a determination that a power level of the mobile station
11 is less than a predetermined reference power level;

12 transmitting information for generating an alarm on an occurrence of a cell secession
13 to the corresponding mobile station upon a determination that the mobile station [[is]] has
14 been registered in the private radio mobile communication system; and

15 handing off the corresponding mobile station call to another cell upon a determination
16 that the mobile station [[is]] has not been registered in the private radio mobile
17 communication system.

1 26. (Previously Presented) The method as claimed in claim 25, wherein transmitting
2 the cell secession alarm information to the mobile station comprises transmitting a
3 predetermined tone control message over a forward traffic channel.

1 27. (Previously Presented) The method as claimed in claim 25, the power-related
2 information including at least one of a power measurement report message as to the received
3 power level from the mobile station and an erasure indicator bit as to an error detected field.

1 28. (Currently Amended) A method comprising:
2 receiving in a base station of a public and private radio mobile communication system
3 a power control parameter of a mobile station located within a common cell area of the
4 public and private radio mobile communication system from a base station controller of the
5 mobile communication system;
6 receiving power-related information in the base station during a call, the power-
7 related information being related to a received power level of the base station at the mobile
8 station and being generated and transmitted from the mobile station to the base station;

9 the base station detecting information as to a frame quality by determining a forward
10 frame error rate from the received power-related information;

11 comparing the determined forward frame error rate with a value corresponding to the
12 power control parameter received from the corresponding base station controller to provide
13 a determined power level of the mobile station;

14 determining when the determined power level of the mobile station decreases below
15 a predetermined reference power level indicating that the mobile station has seceded from
16 a selected cell of the mobile communication system;

17 determining whether the mobile station [[is]] has been registered in the private radio
18 mobile communication system to facilitate the mobile station to use the private radio
19 communication system when the determined power level of the mobile station is less than
20 the predetermined reference power level;

21 transmitting information for generating an alarm on an occurrence of a cell secession
22 to the corresponding mobile station upon a determination that the mobile station [[is]] has
23 been registered in the private radio mobile communication system; and

24 handing off the corresponding mobile station call to another cell upon a determination
25 that the mobile station [[is]] has not been registered in the private radio mobile
26 communication system.

1 29. (Previously Presented) The method as claimed in claim 28, the power-related
2 information including at least one of a power measurement report message as to the received
3 power level from the mobile station and an erasure indicator bit as to an error detected field.

1 30. (Currently Amended) An apparatus comprising:

2 a base station of the mobile communication system adapted to receive power-related
3 information transmitted from a mobile station during a call, the mobile station being located
4 within a common cell area of a public and private radio mobile communication system, the
5 power-related information being related to a received power level of the base station at the
6 mobile station and being generated and transmitted from the mobile station to the base
7 station;

8 an analyzer adapted to analyze the received power-related information to determine
9 when a power level of the mobile station decreases below a predetermined reference power
10 level indicating that the mobile station has seceded from a selected cell of the mobile
11 communication system;

12 the analyzer also adapted to determine whether the mobile station [[is]] has been
13 registered in the private radio mobile communication system to facilitate the mobile station
14 to use the private radio communication system upon a determination that a power level of
15 the mobile station is less than a predetermined reference power level;

16 a transmitter adapted to transmit cell secession alarm information for generating an
17 alarm on an occurrence of a cell secession to the corresponding mobile station upon a

18 determination that the mobile station [[is]] has been registered in the private radio mobile
19 communication system; and

20 the base station handing off the corresponding mobile station call to another cell upon
21 a determination that the mobile station [[is]] has not been registered in the private radio
22 mobile communication system.

1 31. (Previously Presented) The apparatus as claimed in claim 30, wherein the
2 transmitter is adapted to transmit a predetermined tone control message over a forward
3 traffic channel of the mobile communication system indicating that the mobile station has
4 seceded from the selected cell of the mobile communication system.